



Sheet 1 of 4

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
3220-73872SERIAL No.
10/725,891APPLICANT
HumphreysFILING DATE
December 2, 2003GROUP
1461

U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
DV	AA	US 6,255,462	07/03/2001	Grose, Charles			
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	AL						
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

DV	AR	Bergendahl et al., "A fast Western blot procedure improved for quantitative analysis by direct fluorescence labeling of primary antibodies", <i>J. Immunol. Methods</i> , Vol. 277, 2003, pgs. 117-125
	AS	Bradford, "A rapid and sensitive method for the quantification of microgram quantities of protein utilizing the principle of protein-dye binding." <i>Anal. Biochem.</i> , Vol. 72, 1976, pgs. 248-276
	AT	Brizzard et al., "Immunoaffinity purification of FLAG epitope-tagged bacterial alkaline phosphatase using a novel monoclonal antibody and peptide elution", <i>BioTechniques</i> , Vol. 16, No. 4, 1994, pgs. 730-734
	AU	Coorsen et al., "Quantitative fempto- to attomole immunodetection of regulated secretory vesicle proteins critical to exocytosis", <i>Anal. Biochem.</i> , Vol. 307, 2002, pgs. 54-62
	AV	Edwards et al., "Development of a comprehensive panel of antibodies against the major xenobiotic metabolizing forms of cytochrome P450 in humans", <i>Biochem. Pharmacol.</i> , Vol. 56, 1998, pgs. 377-387
	AW	Estabrook et al., "The measurement of difference spectra: Application to the cytochromes of microsomes", <i>Methods Enzymol.</i> , Vol. 52, 1978, pgs. 212-220
	AX	Gietz et al., "Improved method for high-efficiency transformation of intact yeast-cells", <i>Nucleic Acids Res.</i> , Vol. 20, No. 6, 1992, pg. 1425
	AY	Graham-Lorence et al., "P450s: Structural similarities and functional differences.", <i>FASEB J.</i> , Vol. 10, 1996, pgs. 206-214
	AZ	Hopp et al., "A short polypeptide marker sequence useful for recombinant protein identification and purification", <i>Bio/Technology</i> , Vol. 6, 1988, pgs. 1204-1210

Examiner

Date Considered

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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)		
DV ↓	BR BS BT BU BV BW BX BY BZ	Humphreys et al., "New routes for lignin biosynthesis defined by biochemical characterization of recombinant ferulate 5-hydroxylase, a multifunctional cytochrome P450-dependent monooxygenase", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 96, 1999, pgs. 10045-10050 Laemmli et al., "Cleavage of structural proteins during the assembly of the head of bacteriophage", <i>Nature</i> , Vol. 227, 1970, pgs. 680-685 Lau et al., "Low carbon monoxide affinity allene oxide synthase is the predominant cytochrome P450 in many plant tissues", <i>Biochemistry</i> , Vol. 32, 1993, pgs. 1945-1950 Loew et al., "Electronic spectra of model oxy, carboxy P450, and carboxy heme complexes", <i>J. Am. Chem. Soc.</i> , Vol. 102, 1980, pgs. 3655-3657 Lowry et al., "Protein measurement with the Folin phenol reagent", <i>J. Biol. Chem.</i> , Vol. 193, 1951, pgs. 265-275 Mizutani et al., "Isolation of a cDNA and a genomic clone encoding cinnamate 4-hydroxylase from <i>Arabidopsis</i> and its expression manner in planta", <i>Plant Physiol.</i> , Vol. 113, 1997, pgs. 755-763 Morton et al., "Modification of the bicinchoninic acid protein assay to eliminate lipid interference in determining lipoprotein protein content", <i>Anal. Biochem.</i> , Vol. 204, 1992, 332-334 Omura et al., "The carbon monoxide-binding pigment of liver microsomes. II. Solubilization, Purification, and Properties", <i>J. Biol. Chem.</i> , Vol. 239, No. 7, 1964, pgs. 2379-2385 Peisach et al., "Optical and magnetic probes of the structure of cytochrome P-450's", <i>Drug Metab. Dispos.</i> , Vol. 1, No. 1, 1973, pgs. 45-61

Examiner <i>Donkin</i>	Date Considered 5/31/05
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)		
DV ↓	CR CS CT CU CV CW CX CY CZ	Pierrel et al., "Catalytic properties of the plant cytochrome P450 CYP73 expressed in yeast. Substrate specificity of a cinnamate hydroxylase", <i>Eur. J. Biochem.</i> , Vol. 224, 1994, 835-844 Pompon et al., "Yeast expression of animal and plant P450s in optimized redox environments", <i>Methods Enzymol.</i> , Vol. 272, 1996, pgs. 51-64 Prickett et al., "A calcium-dependent antibody for identification and purification of recombinant proteins.", <i>Bio/Techniques</i> , Vol. 7, No. 6, 1989, pgs. 580-586 Ro et al., "Functional characterization and subcellular localization of poplar (<i>Populus trichocarpa</i> X <i>Populus deltoides</i>) cinnamate 4-hydroxylase", <i>Plant Physiol.</i> , Vol. 126, 2001, pgs. 317-329 Stressor et al., "Monospecific anti-peptide antibody to cytochrome P-450 2B6", <i>Drug Metab. Dispos.</i> , Vol. 27, No. 4, 1991, pgs. 517-525 Tobin et al., "Electrophoretic transfer of proteins from polyacrylamide gels to nitrocellulose sheets: Procedure and some applications. <i>Proc. Natl. Acad. Sci. USA.</i> , Vol. 76, No. 9, 1979, pgs. 4350-4354 Urban et al., "Maximizing the expression of mammalian cytochrome P-450 monooxygenase activities in yeast cells", <i>Biochimie</i> , Vol. 72, 1990, pgs. 463-472 Urban et al., "Cloning, yeast expression, and characterization of the coupling of two distantly related <i>Arabidopsis thaliana</i> NADPH-cytochrome P450 reductases with P450 CYP73A5", <i>J. Biol. Chem.</i> , Vol. 272, No. 31, 1997, pgs. 19176-19186 Urban et al., "Characterization of recombinant plant cinnamate 4-hydroxylase produced in yeast - kinetic and spectral properties of the major plant P450 of the phenylpropanoid pathway", <i>Eur. J. Biochem.</i> , Vol. 222, 1994, pgs. 843-850

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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)		
DV ↓	DR	Werck-Reichhart et al., "Glycerol allows low-temperature phase-separation of membrane-proteins solubilized in Triton-X114 - Application to the purification of plant cytochrome-P450 and cytochrome b ₅ ", <i>Anal. Biochem.</i> , Vol. 197, 1991, pgs. 125-131
	DS	Humphreys et al., "Immunodetection and quantification of cytochromes p450 using epitope tagging: immunological, spectroscopic, and kinetic analysis of cinnamate 4-hydroxylase", <i>J. Immunol. Methods</i> , Vol. 292, 2004, pgs. 97-107
	DT	Amersham Biosciences, "Fluorescent ECL Plus Western Blot Detection with Storm Image Analysis Systems", Application Note: Protein Labeling and Detection, 80-6443-83, 1999, pgs. p1-p4
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